

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)



Applicant's or agent's file reference AZ04-160WOWW	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/KR 2004/001180	(Earliest) Priority Date (day/month/year) 20 May 2003 (20.05.2003)	International filing date (day/month/year) 19 May 2004 (19.05.2004)
Applicant LG ELECTRONICS INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see continuation of this first sheet.

2. ☒ Certain claims were found unsearchable (see continuation of this first sheet)

3. ☐ Unity of invention is lacking (see continuation of this first sheet)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

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재						

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in the continuation of this first sheet. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 4

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

**Continuation of first sheet**

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

Claims Nos.: 11, 14 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

The subject matter of claim 11 define a lock nut by reference to a result to be achieved which leads to a lack of clarity such as to render a meaningful search over the whole of the claim scope impossible.

The claim 14 is so inadequately supported by the description that no meaningful opinion could be formed.

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**Continuation No. IV:****Text of the abstract****(Continuation of item 5 of the first sheet)**

Disclosed are lock nuts (100) and (100a) for preventing a leg bolt (4) from loosening from a leg assembly supporting electric home appliances, and a wrench (500) for loosening or tightening the lock nuts (100) and (100a). The lock nuts (100) and (100a) includes a hub having a screw hole (111), a plurality of ribs extended in a radius direction from a circumferential surface of a hub, and having sides (125) and (125a) over which the wrench (500) or a finger is hooked, and a supplementary member (130) provided allowing the wrench or finger to access from the radius direction of the hub to the sides (125) and (125a), and coupling the ribs (120). The wrench (500) includes a long grip having at least one projection (550) and (560) on an outer circumferential surface thereof, and a box end (530) or an open end (520) provided at either of both ends thereof.

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## A. CLASSIFICATION OF SUBJECT MATTER

F16M7/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F16M, D06F, A47L, A47B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 549 870 A1 (MATERIAUX ETANCHEITE ENTREPRIS) 1 February 1985 (01.02.1985) <i>abstract; description page 3 line 15-30, page 4 line 35; figure 1</i> --	1, 2, 3, 7, 10, 22, 23
A	CH 525 980 A (WILLY GROB AG) 31 July 1972 (31.07.1972) <i>abstract; figures 1 and 2</i> --	1, 2, 3, 7, 18, 19, 20, 22, 23, 28
X	FR 591.028 A (REBOUL) 26 June 1925 (26.06.1925) <i>the whole document</i> ----	31 - 34

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search  
15 September 2004 (15.09.2004)Date of mailing of the international search report  
22 September 2004 (22.09.2004)Name and mailing address of the ISA/ AT  
**Austrian Patent Office**  
Dresdner Straße 87, A-1200 Vienna

Facsimile No. +43 / 1 / 534 24 / 535

Authorized officer  
KUTZENBERGER T.

Telephone No. +43 / 1 / 534 24 / 577

INTERNATIONAL SEARCH REPORT  
Information on patent family members

International application No.  
PCT/KR 2004/001180

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
CH	A	525980	1972-07-31	none	
FR	A	2549870	1985-02-01	none	
FR	A	591028	1925-06-26	none	